826/25J SBR No 97/dt 30.6.2014

Original/Duplicate/Triplicate

Est. Cost. LAKHS

CONTRACT CERTIFICATE

1ST & FINAL BILL

(For Other Works)

No.

Sub-Division DD

Division DD

Date : .....

Bill Received No. 509/14-15 Dated 30.8.14

Cash Book Voucher No. ..... Dated : .....

Scheduled Doctet No. .....

Head of Account .....

Name of work (as per sanctioned estimate) DRILLING OF BOREWELL PROVIDING PUMP MOTOR AND SERVICEING AT MUTTARAYANAKATTE, VENUGOPALA TMEPLE VISHVESHWARAIAH LAYOUT AND SOUNDARYA LAYOUT IN BAGALAGUNTE IN WARD NO.14

Name of Contractor and Full Address TECHNICAL MANAGER(WEST) KRIDL

Reference to Agreement No. EE/DD/WO/07/14-15 Date: 5.5.2014

Certified that the measurements were taken by me on 30/6/2014 and recorded in pages 825396825547 of measurements Book No. 826 and that the work is satisfactorily executed.

Technical Manager-2
KRIDL, BBMP
Bangalore - 560 001

Contractor

Officer in - charge of work

Certified that the measurements were checked by me on 30-6-2014 and found correct. The work is satisfactorily executed.
Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

If Memorandum of Payment WORK CODE : **014-14-000001** P CODE NO.1802

Sub - Division Officer

		AMOUNT
1.	Total value of work done or supplies made as per account.	Bill Amount 1952970=00
2.	Deduct amount to be held in reserve being ..... percent Rs.	--
3.	- do - Balance	
4.	Deduct Payments :	
	a) Amount of previous payment as in the Office Cash Book Voucher No. Dated S.D. No.	IT - 39059=00 VAT - 78119=00 F&O - 97649=00 LWC - 19530=00 CBF - 1953=00 Total -- 236310=00
	Amount adjusted towards cash advance recovery of	
	b) Payments cost store or other materials supplied	
5.	Balance being unpaid value of work done held in reserve	
6.	Deduct cash advance made on the office Cash Book Vehicle No. dated less adjustments	
7.	Net amount due to or from contractor	Net - 1716660=00
	Unadjusted items	
8.	Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied	
	Total amount adjusted --	

Received Rs. (in words)

by cash and by adjustment of

Payment as per memorandum

(In final settlement of all demand)

Witness :

1.

2.

Date 30/8

Paid by me by cheque No. Dated

Cash Rs.

Technical Manager-2
Signature of Contractor
KRIDL, BBMP
Bangalore - 560 001

Technical Manager-2
Contractor Signature
KRIDL, BBMP
Bangalore - 560 001

Stamp

(For use in the Office)

Audited and ad... 1952970=00

Passed ... 1716660=00

(.....)

.....

Account ... 236310=00

Asst. Engineer

	Items of work (grouped under sub-heads the sub works of the estimate)
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump P.W.S.S. by vertical electrical sounding by adopting gvenner or schiberger's method, including reconnaissance survey of formation, geophysical investigation of existing ground water in the vicinity, its quality and acceptability of the users indicating the location of site, recommended depth of 1.0 mtrs in consolidated formation for proper seating of casting pipe, depth of drilling to cover full depth of acquifer proposed to be tapped, probate yield and other information required including transportation accessories to work site, engaging technical personal and labour required etc
2	Sinking borewell of 165mm dia clear using super fast Hydrolic rig of capacity 250 PSIG and above 900 CFM and above strats including over burden upto 20mm fixing of casing pipes collars and cap with necessary, cutting and threading transportation of rig and supporting vehicles, crew charges and cost of consumbables etclm complete including yield test the final depth with a minimum work in on compression for an hour (excluding cost of casing pipes collars cap etc.)
	0.00 to 50 mtrs
	50 to 100 mtrs
	100 mtrs to 150 mtrs
	150mtrs to 200 mtrs
	200.00 to 250.00 mtrs
	250.00 to 300.00 mtrs
	300.00 to 320.00 mtrs
3	Supplying of ISI mark 175 mm nominal bore plain end steel casing pipe grade of steel Fe 410, of wall thickness 5.4mm confirming to IS 4270:2001 and latest emendmetns electric resistance welded steel tube material and confirming to 1387/1993 and manufactured by basic open hearth electric or basic oxyzen process in random length of 4 to 7 mtrs ends threaded confirming to IS 554/1985, one end fixed with screwed pipes, all pipes shall be reasonably straight should
A	Casing pipe
4	Additional rate on item No.2 is allowed for drilling in over burden and following casing pipes beyond 20 mtrs rate at 15% and beyond mtrs 30% on basic rate of Rs.270 is allowed
a	Above 20 mtrs and upto 30 mtrs
b	Above 30 mtrs
5	Providing 175mm dia MS Collar
6	Providing 175mm dia MS Cap
7	Supply and delivery at site brand new Texmo/Innoval/Lubi/Sabar/Atalanta/calamal/ waterman/radha make suitable for installation in 150mm dia. Borewells composing of single stage stage or multistage CF pump close coupled by muff stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type squirrel cage submersible induction motor suitabled for operation of 3 Ph, 50Hz., 380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc., complete. The pump and motor shall form an intergral unit with all the required fittings. (As per RDED aproved by KUWS & DB wef 16/5/2006) 10 HP
8	Supply and drawing 3 core flat sheathed submersible pump cable manufactured with celectrolytic grade copper with flat copper conductor confirming to table 3 class 5 of IS 8130-1984 and virgin grade PVC insulation and sheathed suitable working voltage upto 1100 volts as per 1x3x4 sqm of 56 strands 0.3mm dia Group A
9	Supplying and fixing 50mm non return valve of vertical type of aplproved make including cost of all materials labour incidental equipment with all leads compelte as per specification
10	Supplying and fixing 50mm dia GM Gae valve
11	Supplying and fixing 175mm borewell cap with clampset

Unit	Previous Measurement			Present Measurement			Total Up-to-date		Remarks
	Qty	Rate Rs. Ps.	Cost	Qty	Rate Rs. Ps.	Cost	Qty	Cost	
Nos				4.00	1882.00	7528.00	4.00	7528.00	
						0.00	0.00	0.00	
Rmt				200.00	306.00	61200.00	200.00	61200.00	
Rmt				200.00	400.00	80000.00	200.00	80000.00	
Rmt				200.00	445.00	89000.00	200.00	89000.00	
Rmt				200.00	470.00	94000.00	200.00	94000.00	
Rmt				200.00	544.00	108800.00	200.00	108800.00	
Rmt				200.00	583.00	116600.00	200.00	116600.00	
Rmt				80.00	622.00	49760.00	80.00	49760.00	
				180.00	1325.00	238500.00	180.00	238500.00	
Mtr				40.00	43.05	1722.00	40.00	1722.00	
Mtr				120.00	86.10	10332.00	120.00	10332.00	
No				40.00	150.00	6000.00	40.00	6000.00	
No				4.00	100.00	400.00	4.00	400.00	
Rmt				3.00	52000.00	156000.00	3.00	156000.00	
No				1800.00	151.00	271800.00	1800.00	271800.00	
No				3.00	1530.00	4590.00	3.00	4590.00	
No				3.00	1430.00	4290.00	3.00	4290.00	
No				3.00	690.00	2070.00	3.00	2070.00	

	Items of work (grouped under sub-heads the sub works of the estimate)
12	Supplying and fixing 50mm dia GI union
13	Supply and fixing 50mm GI Elbow
14	Supply and fixing 50mm GI coller heavy duty
15	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adarsh / GK controls best indigenou combined energy meter cum control panel board unit of sie 1200x600x350 mm minimum mechanically strong wel water proof. The unit shall have two detachable doors suitable for operation on 3ph. 50 Hz, 380/440 volts. AC sup spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers wi shall be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy me control panel board unit suitable for operation on 3ph, 50 Hz, 380/440 volts AC supply shall be consists etc., comp panel board shall be consists etc., complete the panel board shall be fabricated on single unit in the above componen board for suitable pumpset with Star delta starter out door type 10 HP to 20 HP
16	Providing and fixing of 50mm GI pipe C Class heavy duty for erection of submersible pumpset
17	Erection of combined panel board and meter unit with necessary materials and labour including providing cement foundation bed cont door type etc., complete
18	Supplying of TPST with rewireable porcelain Channels in SM encloser 32 amps
19	Supplying and fixing 500 x 500x 65 mm polished wood board made up not less than 15mm thick plank with front pi end provided for olding at other end fixing the same of the valve using through bolts and nuts 20"x2"'x2.5"
20	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 Hz V DC
21	Supplying and drawing each PVC insulated 650/100V grade wire in the conduct (Open or concealed system of wiring)7/20 or 7/2 wire
22	Supplying fixing and wiring heavy duty low voltage capacitors confirming to 12834, 3 phase 400/440 volts grade for fctor improvement of rorating machinery capacitor in KVAR
23	Supplying and fixing mainature circuite breakers in existing MCB distributin boards using necessary fixing materials type curve, indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10 K compelte wiring complete as
24	Supplying, fixing , wiring earth electrode for grounding conduits. IC cutouts and other equipments on the meter boar 40mm dia 2.90 mm thick GI pipe 2.5m long buried in a pit. The pit should be filled with equal proportion of solt and c 150mm alround the pipe to complete depth. The connection from the pipe to the conduct etc., is to be etablished thro wire of size as epr ISI specification 7.3.3. IS 732 using 12mm dia bolts, nuts, washers and check nuts, etc., the pi
25	Supplying and fixing class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole / wall / drain cross necessary clamping arrangements for UG cable of 1.1 KV class 40mm
26	Supply 1.1 KV class UG cable from nearest BESCOM pole to panel board including earth work and road restoratio 4 sqmm
27	Labour charges for laying 1.1 KV class UG cable when supplied departmentally/agency in existing trench GI pipe/str pipe/on wall/on pole as required (a) 6 sqmm to 16 sqmm.
28	Digging of trench of 0.6m p x 0.50mtr vide refiling the trench to the required ground level and consolidation etc., cutting road surface
29	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen / ins compound compelte with terminals clamsp, bolts nuts and washers etc., for 16 sqmm

Unit	Previous Measurement			Present Measurement			Total Up-to-date		Remarks
	Qty	Rate Rs. Ps.	Cost	Qty	Rate Rs. Ps.	Cost	Qty	Cost	
No				3.00	245.00	735.00	3.00	735.00	
No				3.00	120.00	360.00	3.00	360.00	
No				48.00	1350.00	64800.00	48.00	64800.00	
No				3.00	10000.00	30000.00	3.00	30000.00	
No				774.00	402.75	311729.00	774.00	311729.00	
No				3.00	475.00	1425.00	3.00	1425.00	
Cum				3.00	1350.00	4050.00	3.00	4050.00	
Cum				3.00	275.00	825.00	3.00	825.00	
Cum				3.00	350.00	1050.00	3.00	1050.00	
Rmt				30.00	25.00	750.00	30.00	750.00	
Cum				3.00	350.00	1050.00	3.00	1050.00	
Rmt				3.00	1075.00	3225.00	3.00	3225.00	
Cum				3.00	1500.00	4500.00	3.00	4500.00	
Cum				30.00	220.00	6600.00	30.00	6600.00	
Cum				45.00	150.00	6750.00	45.00	6750.00	
sqm				~~90.00~~ 4520	5.00	~~450.00~~ 2252	~~90.00~~ 4520	~~450.00~~ 2252	
No				45.00	50.00	2250.00	45.00	2250.00	
Cum				3.00	240.00	720.00	3.00	720.00	

	Items of work (grouped under sub-heads the sub works of the estimate)
30	Supplying and fixing of porcelain fuse channel with cut out on existing new wooden panel using necessary nuts, bolts and washers complete
31	BESCOM Deposit charges
32	Cutting of road surface and pipeline trenches and disposing of the excavated stuff as directed including barricading, lighting etc., cutting in Asphalt road surface
33	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods as per specifications.
34	Providing and installing at site of work P.V.C pipees including cost of pipes and specials and labour including lowering into trench laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, testing charges including encasing the pipe alround to a depth not leass than 15 cms with gravel or selected earth available from the excavation etc., complete PVC pipes of 6kg/Sqm 75mm Dia.
35	Supplying and fixing 50mm GI pipes B class heavy duty
36	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications 60% of rate considered under item.
37	Disposing of excavated earth to the final place of disposal with all lead and lift and as directed by the Engineer in charge the work lead upto 2 km
38	Transportation of pumping machineries
39	Erection of pumping machineries
40	KRIDL CHARGES 10%+ 1%
	CERTIFICATE:
1	Work done is satisfactory
2	There are no departmental issuesmade to the contractor
3	The contractor has cleared all debrice from work spot

V S 2

Unit	Previous Measurement			Present Measurement			Total Up-to-date		Remarks
	Qty	Rate Rs. Ps.	Cost	Qty	Rate Rs. Ps.	Cost	Qty	Cost	
sqm				18.00	219.00	3942.00	18.00	3942.00	
Ls				~~3.00~~	~~13000.00~~	~~39000.00~~	~~3.00~~	~~39000.00~~	
Cum					255.00				
No					227.88				
No					157.00				
No					325.00				
No				~~281.25~~	~~60.48~~	~~17010.00~~	~~281.25~~	~~17010.00~~	
No				~~93.96~~	~~106.85~~	~~10040.00~~	~~93.96~~	~~10040.00~~	
				~~3.00~~	~~850.00~~	~~2550.00~~	~~3.00~~	~~2550.00~~	
Ls				~~3.00~~	~~850.00~~	~~2550.00~~	~~3.00~~	~~2550.00~~	
						~~10009.00~~		~~10009.00~~	
						1778940		1778940	
	KRIDL Charges 10%					~~1999970.00~~		~~1999970.00~~	
						2134630			
Rupees in words						1992383.00			

Bill Amount - 1740564=00
10% KRIDL charges - 174056=00
KPTCL charges - 38350=00
Total - 1952970=00

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